

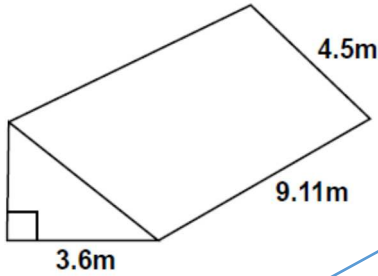
* Show all your **work** for each question (*equation, substitution and answer including units*) and place a **box** around your **final answer***

→ If you have to round off within the question before the final answer, truncate to 4 decimal places.

Round **FINAL** answer to two decimal places if necessary (if final answer is a non-terminating decimal).

Use your notes / resource page if you're not sure what steps to include in showing your work.

1. For this question, you need to use Pythagoras to find the height of the triangle (don't round answer) before you can use the surface area formula. (/6)



b = _____

SA = _____

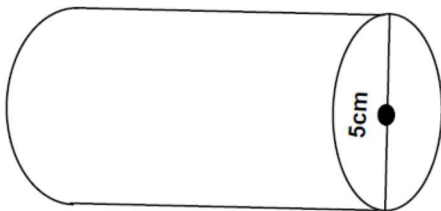
h = _____

don't round off these decimals →

include full terminating decimal →

2. Remember within the question leave the answers with 4 decimal places. Round the final answer to 2 decimal places.

12cm

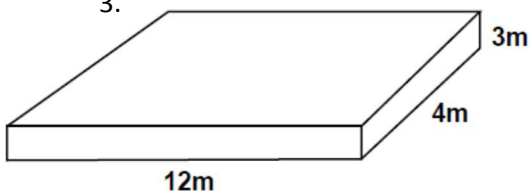


d = _____ r = _____

truncate to 4 decimal places →

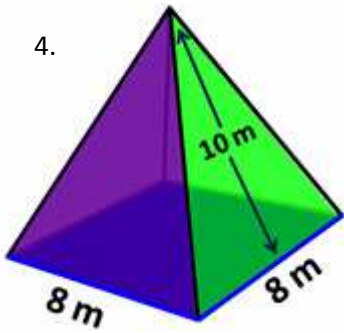
round off to 2 decimal places →

- 3.



L = _____ W = _____ H = _____

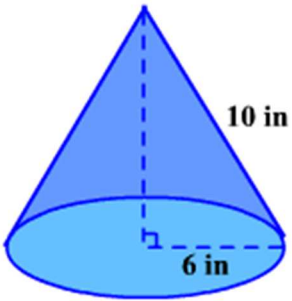
4.



b = _____ s = _____

(b of triangle and s of square are the same number)

5. For this question, you need to use Pythagoras to find the height of the triangle (don't round answer) before you can use the surface area formula. (/6)

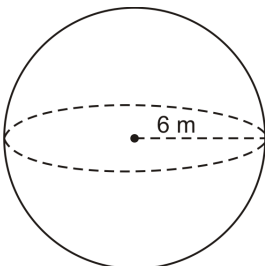


b = _____ h = _____ s = _____

truncate to 4 decimal places →

round off to 2 decimal places →

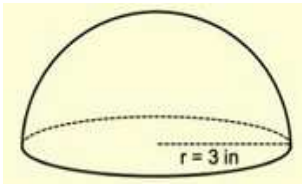
6.



r = _____

round off to 2 decimal places →

7.



Remember that to find the surface area of a hemisphere, you find the surface area as if it were a whole sphere (like in #6), and then divide by 2 (because it's half a sphere). Plus you need to find the area of the circle that is the base of the hemisphere. Get the formula from p. 30 of your booklet.

truncate to 4 decimal places →

round off to 2 decimal places →

/3

CATEGORY	4	3	2	1
Mathematical Errors	90-100% of the steps and solutions have no mathematical errors.	Almost all (85-89%) of the steps and solutions have no mathematical errors.	Most (75-84%) of the steps and solutions have no mathematical errors.	More than 75% of the steps and solutions have mathematical errors.
Strategy/Procedures	Typically, uses an efficient and effective strategy to solve the problem(s).	Typically, uses an effective strategy to solve the problem(s).	Sometimes uses an effective strategy to solve problems, but does not do it consistently.	Rarely uses an effective strategy to solve problems.
Completion	All problems are completed.	All but one of the problems are completed.	All but two of the problems are completed.	Several of the problems are not completed.
Neatness and Organization	The work is presented in a neat, clear, organized fashion that is easy to read.	The work is presented in a neat and organized fashion that is usually easy to read.	The work is presented in an organized fashion but may be hard to read at times.	The work appears sloppy and unorganized. It is hard to know what information goes

OKAY, GOT IT.

**THE SURFACE AREA OF A CYLINDER =
2(RADIUS X RADIUS X PI) + (HEIGHT X
CIRCUMFERENCE).**

makeameme.org

IT'S A SMALL WORLD AFTER ALL?

FALSE.

**EARTH'S SURFACE AREA IS
148,940,000 SQUARE MILES.**

quickmeme.com

**SQUARES AND
TRIANGLES AGREE**



**CIRCLES ARE
POINTLESS**

